

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Fluid product spraying device comprising a fluid product dispensing pump (10) operating without propellant gas and without active spraying means, ~~such as piezoelectric or electrostatic spraying means,~~ and a spray head (20) to actuate the said pump (10) manually, ~~characterised in that the~~ wherein said device comprises dispensing detection means (30) to detect that a product dose has been dispensed, ~~the~~ said detection means (30) being adapted to output a signal to inform the user that a dose of product has actually been dispensed by ~~the~~ said pump; and

wherein said detection means comprises an expulsion detector adapted to detect the passage of the product in said expulsion channel.

2. (currently amended): Device according to claim 1, in which the dispensing pump (10) is connected to a spraying orifice (40) through an expulsion channel (50), ~~the~~ said detection means (30) being provided in ~~the~~ said expulsion channel (50).

3. (canceled).

4. (currently amended): Device according to claim 3, in which ~~the~~ said expulsion detector (30) comprises a pressure sensor adapted to detect the pressure difference at the time that a product dose is sprayed.

5. (currently amended): Device according to claim 1, in which ~~the~~ said detection means (30) are connected to electronic means to process signals output by ~~the~~ said detection means (30).

6. (canceled).

7. (currently amended): Device according to claim 1, in which ~~the~~ said device is a nasal spraying device, ~~the~~ and said pump dispenses ~~(10) being adapted to dispense the product in a fine spray that is so finely sprayed that this spraying is undetectable by the user, the~~ said detection means (30) informing the user each time that a product dose has been dispensed.

8. (new): Device according to claim 1, wherein the dispensing pump operates without piezoelectric or electrostatic spraying mechanisms.

9. (new): A fluid product spraying device comprising:
a fluid product dispensing pump;
a spray head to manually actuate the pump; and
a sensor that senses movement of fluid through the pump, thereby detecting that a product dose has been dispensed; and

electronics that output a signal based on information from the sensor to inform the user that a dose of product has been dispensed by the pump.

10. (new): The device according to claim 9, wherein the sensor senses movement of fluid through an expulsion channel of the pump.

11. (new): The device according to claim 9, wherein the pump operates without propellant gas and without active spraying means, including as piezoelectric or electrostatic spraying mechanism.